



Outer Planets Flagship Mission Instrument Workshop June 3-5, 2008



- NASA and ESA have been regularly studying these missions
- Significant NASA study investment in 2007 examining flagship missions to Europa, Jupiter system, Titan, and Enceladus
 - HQ selected Europa, Jupiter system, and Titan for continued study with revised groundrules
 - Study Reports and independent review results posted on the OPAG website
- ESA conducted Cosmic Vision call for proposals in 2007



- NASA and ESA have firm plans leading to an OPF mission
 - The FY09 President's Budget includes an OPF mission launching in 2016-2017
 - ESA is currently conducting Cosmic Vision study and selection process, which includes OPF candidates
- In preparation, NASA and ESA are currently collaborating on mission studies for either Europa and the Jupiter system or Titan and the Saturn system
- As part of those study efforts, we have convened two Joint Science Definition Teams (JSDT)
 - The Jupiter JSDT provides science input to the Europa Orbiter mission study (run by NASA) and to the Jupiter/Ganymede Orbiter mission study (run by ESA)
 - The Saturn JSDT will provide science input to the Titan Orbiter mission study (run by NASA) and to the Titan in situ mission study (run by ESA).

Outer Planets Flagship Mission: The Road Ahead

- August 2008: Preliminary mission study reports
- September 2008: Independent TMC and Science review
- Fall 2008: Teams revise reports based on review results
- Late Fall 2008: HQ and ESA downselect to one OPF mission
- Early 2009: Begin Phase A, including appropriate release of instrument AO

Instrument Workshops and the AO

- The TMC review of the 2007 studies expressed concern about the complexities and potential uniqueness of instruments and the resulting impacts to cost, schedule, and risk
- The TMC review also commended the plan to help mitigate this using a series of community workshops to share critical information well before AO release
- These workshops, of which this is the first, are intended to prepare the community to respond to the instrument AO by providing information on environmental and planetary protection constraints for both missions for interested groups
- As we approach the time for formal AO preparation, NASA is eager to hear from the community



- Keep in mind that OPF is a complex international mission that is currently in pre-phase A
- We should expect some changes as we move toward and through Phase A, such as
 - Programmatics
 - Schedules
 - Unforeseen technical issues
- But the important things will not, such as
 - The radiation environment at Europa
 - The surface conditions on Titan
 - The key science objectives
 - NASA and ESA commitment to the mission
- Let's stay flexible, focused, and get to work